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Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MKN/10/2020-2021 Date:10.07.2020

# TEST REPORT ON CEMENT

**Client** : **Executive Engineer-4,** Lakes,BBMP, Bangalore.
**Agency** : **Sri. Mahesh K N,** Contractor, Bangalore.
**Name of Work** : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore
**Sample :** : Cement (ACC 53 grade OPC)
**Sample Supplied by:** : AGENCY
**Date of Manufacture:** : June-2020
**Date of Testing** 08.07.2020 to 10.07.2020

| Sl.No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 269:2015 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part - 5):1988(RA 2014) | 125 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part - 5):1988(RA 2014) | 370 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method | 1 mm | Not more than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part -4) | 30.00% | - |

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

BU-TECH BANGALORE

Asst Executive Engineer
Lakes. BBMP

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Job No.: CQCE/BBMP/MKN/10/2020-2021 Date 10.07.2020

## TEST REPORT ON FINE AGGREGATES (SAND)

**Client** : **Executive Engineer-4,** Lakes,BBMP, Bangalore.
**Agency** : **Sri. Mahesh K N,** Contractor, Bangalore.
**Name of Work** : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore
**Date of Testing** 10.07.2020
**IS Code** :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
**Material** : Sand Total Wt. of Aggregates in gms **1000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Requirements as per IS 383:2016 Spec.Limits For Zone-II |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 60 | 6.00 | 6.00 | 94.0 | 90-100 |
| 2.36 | 122 | 12.20 | 18.20 | 81.8 | 75-100 |
| 1.18 | 158 | 15.80 | 34.00 | 66.0 | 55-90 |
| 600 Micron | 271 | 27.10 | 61.10 | 38.9 | 35-59 |
| 300 Micron | 165 | 16.50 | 77.60 | 22.4 | 8-30 |
| 150 Micron | 142 | 14.20 | 91.80 | 8.2 | 0-10 |

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Lakes, BBMP

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Job No.: CQCE/BBMP/MKN/10/2020-2021 Date 10.07.2020

## TEST REPORT ON COARSE AGGREGATES

**Client** : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

**Agency** : **Sri. Mahesh K N,** Contractor, Bangalore.

**Name of Work** : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Date of Testing 10.07.2020

**IS Code** :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Requirements as per IS 383:2016 |
|---|---|---|---|---|---|
| 80 | 0 | 0 | 0 | 100 | 100 |
| 40 | 235 | 1.57 | 1.57 | 98.43 | 95-100 |
| 20 | 8451 | 56.34 | 57.91 | 42.09 | 30-70 |
| 10 | 3326 | 22.17 | 80.08 | 19.92 | 10-35 |
| 4.75 | 2748 | 18.32 | 98.40 | 1.60 | 0-5 |

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Job No.: CQCE/BBMP/MKN/10/2020-2021 Date 10.07.2020

## TEST REPORT ON COARSE AGGREGATES

**Client** : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

**Agency** : **Sri. Mahesh K N,** Contractor, Bangalore.

**Name of Work** : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Date of Testing 10.07.2020

**IS Code** :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Requirements as per IS 383:2016 |
|---|---|---|---|---|---|
| 40 | 0 | 0 | 0 | 100 | 100 |
| 20 | 160 | 3.2 | 3.2 | 96.8 | 95-100 |
| 10 | 2418 | 48.4 | 51.6 | 48.4 | 25-55 |
| 4.75 | 2025 | 40.5 | 92.1 | 7.9 | 0-10 |

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Job No.: CQCE/BBMP/MKN/10/2020-2021 Date 10.07.2020

## TEST REPORT ON FINE AGGREGATES (SAND)
## IS 1542-1992

**Client** : **Executive Engineer-4,** Lakes,BBMP, Bangalore.
**Agency** : **Sri. Mahesh K N,** Contractor, Bangalore.
**Name of Work** : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore
**Date of Testing** 10.07.2020
**Material** : Plastering Sand Total wt. of aggregates in gms = **1000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits as per IS 1542-1992 |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 23 | 2.30 | 2.30 | 97.7 | 95-100 |
| 2.36 | 25 | 2.50 | 4.80 | 95.2 | 95-100 |
| 1.18 | 39 | 3.90 | 8.70 | 91.3 | 90-100 |
| 600 Micron | 72 | 7.20 | 15.90 | 84.1 | 80-100 |
| 300 Micron | 243 | 24.30 | 40.20 | 59.8 | 20-65 |
| 150 Micron | 540 | 54.00 | 94.20 | 5.8 | 0-15 |

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Asst Executive Engineer
Lakes, BBMP

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
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Job No.: CQCE/BBMP/MKN/10/2020-2021 Date 10.07.2020

## TEST REPORT ON FINE AGGREGATES (SAND)
## IS 2116-1980

**Client** : **Executive Engineer-4,** Lakes,BBMP, Bangalore.
**Agency** : **Sri. Mahesh K N,** Contractor, Bangalore.
**Name of Work** : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore
**Date of Testing** 10.07.2020
**Material** : Masonry Sand Total wt. of aggregates in gms = **1000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits as per IS 2116-1980 |
|---|---|---|---|---|---|
| 4.75 | 0 | 0.00 | 0.00 | 100.0 | 100 |
| 2.36 | 25 | 2.50 | 2.50 | 97.5 | 90-100 |
| 1.18 | 31 | 3.10 | 5.60 | 94.4 | 70-100 |
| 600 Micron | 86 | 8.60 | 14.20 | 85.8 | 40-100 |
| 300 Micron | 251 | 25.10 | 39.30 | 60.7 | 5-70 |
| 150 Micron | 512 | 51.20 | 90.50 | 9.5 | 0-15 |

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Authorised Signatory

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Asst Executive Engineer
Lakes. BBMP

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Job No.: CQCE/BBMP/MKN/10/2020-2021

Date 10.07.2020

# TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

**Client** : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

**Agency** : **Sri. Mahesh K N,** Contractor, Bangalore.

**Name of Work** : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

**Steel Dia/Length** : 8mm,10mm,12mm" TMT"

**Reference to BIS codes** : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

**Date of test** 10.07.2020

| S.No | Brand | Nominal size (dia in mm) | Mass per meter (kg/meter) | TENSILE STRENGTH | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.20 % proof stress/ yield stress ($N/mm^2$) | Tensile strength ($N/mm^2$) | TS/YS ratio | Elongation, percent on gauge length |
| 1 | TMT | 8 | 0.396 | 525 | 602 | 1.15 | 14 |
| 2 | TMT | 10 | 0.618 | 539 | 615 | 1.14 | 16 |
| 3 | TMT | 12 | 0.888 | 541 | 635 | 1.17 | 17 |
| 4 | TMT | 16 | 1.58 | 565 | 647 | 1.15 | 20 |

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Authorised Signatory

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Asst Executive Engineer
Lakes, BBMP

Corporate Off.: No. 133, Bhuvaneshwarinagar, Dasarahalli Main Road, Bangalore-560 056.
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MKN/10/2020-2021

Date 20.08.2021

# TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

**Client** : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

**Agency** : **Sri. Mahesh K N,** Contractor, Bangalore.

**Name of Work** : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

**Steel Dia/Length** : 8mm,10mm,12mm" TMT"

**Reference to BIS codes** : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

**Date of test** 20.08.2021

| S.No | Brand | Nominal size (dia in mm) | Mass per meter (kg/meter) | TENSILE STRENGTH | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.20 % proof stress/ yield stress ($N/mm^2$) | Tensile strength ($N/mm^2$) | TS/YS ratio | Elongation, percent on gauge length |
| 1 | TMT | 8 | 0.396 | 512 | 625 | 1.22 | 13.5 |
| 2 | TMT | 10 | 0.618 | 526 | 638 | 1.21 | 15 |
| 3 | TMT | 12 | 0.888 | 538 | 649 | 1.21 | 17 |
| 4 | TMT | 16 | 1.58 | 542 | 657 | 1.21 | 18.5 |

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Asst Executive Engineer
Lakes, BBMP

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Job No.: CQCE/BBMP/MKN/10/2020-2021

26.07.2021

## TEST REPORT ON STAINLESS STEEL HOLLOW PIPE (16th Gauge)

Client : **: Executive Engineer-4,** Lakes,BBMP, Bangalore.

Agency : **: Sri. Mahesh K N,** Contractor, Bangalore.

Name of work : : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Specimen Size : SS Hollow pipe 50mm Dia

## PHYSICAL TEST

| Sl.No | Description | Result |
|---|---|---|
| 1 | Thickness | 1.98 mm |
| 2 | Inner Diameter | 50.10 mm |
| 3 | Outer Diameter | 51.82 mm |
| 4 | Weight / Meter | 2.524 Kg |

The Results relate only to the items tested

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Asst Executive Engineer
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MKN/10/2020-2021

Date: 06.08.2021

## TEST REPORT

| | | |
|---|---|---|
| **Client** | : | **: Executive Engineer-4,** Lakes,BBMP, Bangalore. |
| **Agency** | : | **: Sri. Mahesh K N,** Contractor, Bangalore. |
| **Name of the work** | : | : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore |
| **Type of the test** | : | Physical tests on Paver Blocks |
| **Date of Testing** | : | 06.08.2021 |
| **Samples supplied by** | : | AGENCY |

The results of the tests conducted on the Paver Blocks sample are as follows:

### 1. THICKNESS:

| Sl.No | Identification | Thickness, mm | Average thickness, mm |
|---|---|---|---|
| 1 | 01 | 60.12 | 60.14 |
| 2 | 02 | 60.16 | |

### 2. COMPRESSIVE STRENGTH:

| Sl. No | Identification | Load in Kilo-Newton | Cross sectional area, $mm^2$ | Compressive strength $N/mm^2$ | Compressive strength $Kg/m^2$ | Requirement as Specification |
|---|---|---|---|---|---|---|
| 1 | 01 | 693.2 | 24,200 | 28.64 | 286.4 | Minimum required Compressive Strength of Individual Units 281 $Kg/m^2$ |
| 2 | 02 | 696.7 | 24,200 | 28.78 | 287.8 | |

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Lakes. BBMP

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Job No.: CQCE/BBMP/MKN/10/2020-2021

Date: 06.08.2021

## KERB STONE (CORE) TEST REPORT

| | | |
|---|---|---|
| **Client** | : | **: Executive Engineer-4,** Lakes,BBMP, Bangalore. |
| **Agency** | : | **: Sri. Mahesh K N,** Contractor, Bangalore. |
| **Name of Work** | : | : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore |
| **No.of Sample Tested** | : | 03 |
| **Date of Testing** | : | 06.08.2021 |
| **Techinical Reference** | : | IS:516-1959 (Reaffirmed 1999), SP-24:1983. |
| **Grade of Concrete** | : | $M_{15}$ |

| Sl. No. | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (kg / $m^3$) | H / D | Correction factor (Based on H/D) | Failure Load (kN) | Core Strength ( $N/mm^2$) | Correction Factor for the Dia. (Strength of the Core x 1.08) | Corrected Cylinder Compressive Strength ($N/mm^2$) | Equivalent Cube Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50.00 | 78.00 | 0.359 | 2344.07 | 1.56 | 0.952 | 25.10 | 12.78 | 13.81 | 13.15 | 16.44 |
| 2 | 50.00 | 82.00 | 0.383 | 2378.78 | 1.64 | 0.961 | 26.30 | 13.39 | 14.47 | 13.90 | 17.38 |
| 3 | 50.00 | 86.00 | 0.403 | 2385.99 | 1.72 | 0.970 | 27.80 | 14.16 | 15.29 | 14.83 | 18.54 |

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Asst Executive Engineer
Lakes. BBMP

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Job No.: CQCE/BBMP/MKN/10/2020-2021 Date:06.08.2021

## TEST REPORT ON CPVC PIPE

**Client** : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

**Agency** : **Sri. Mahesh K N,** Contractor, Bangalore.

**Name of Work** : Providing Pathway, Children Play Equipments and Other Development Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

**Sample Supplied by:** :AGENCY

**BIS Code:** IS 13360(Part3/Sec 1):1995
IS 15778:2007

**Sample Identification:** CPVC pipe 32mm dia

**Date of Testing** 06.08.2021

| Sl.No | Test | Test Result | Requirements as per IS: 15778:2007 |
|---|---|---|---|
| 1 | Nominal Outer Diameter (mm) | 34.9 | 34.9 mm |
| 2 | Mean Outside Diameter (mm) | 34.9 | Min 34.8 mm<br>Max 35 mm |
| 3 | Outside Diameter at Any Point (mm) | 34.8 | Min 34.7 mm<br>Max 35.1 mm |
| 4 | Density | 1470 $Kg/m^3$ | 1450 $Kg/m^3$ & 1650 $Kg/m^3$ |

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Asst Executive Engineer
Lakes, BBMP

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CQCE/BBMP/MKN/10/2020-2021

07.08.2021

# TEST REPORT ON MECHANICAL PROPORTIES OF CHAIN LINK FENCING, M.S.BLOCK PIPE, M.S. RECTANGULAR POLE

**Client** : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

**Agency** : **Sri. Mahesh K N,** Contractor, Bangalore.

**Name of Work** : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

**Sample Identification:** Chain link fencing, MS-Block Pipe 38MM dia, M.S. Rectangular Pole

**Reference to BIS codes** IS 1161:1998 Steel for Structural Purposes-Specification

**Date of test:** 06.08.2021 to 07.08.2021

| Description of Sample | Description | Results | Required as per IS 1161-1998 |
|---|---|---|---|
| Chain link fencing 50 mm of 8 Gauge | Diameter | 3.32 mm | 3.15mm |
| | Measured mesh | size 52 mm | 50 ± 3 mm |

| Description of Sample | Description | Results | Required as per IS 1161-1998 |
|---|---|---|---|
| MS-Block Pipe 38MM dia of heavy guage of 14 | Mass | 2.24 Kg/m | |
| | Yield Stress | 221 N/mm2 Mpa | 210 Mpa min |
| | Tensile Strength | 344 N/mm2 Mpa | 330 Mpa min |
| | Percent | 22 | 20% min |

| Description of Sample | Description | Results | Required as per IS 2062:2006, 608:1989 |
|---|---|---|---|
| M.S. Rectangular Pole of 2 equal angles 65mm X 65mm X 6mm | Mass | 5.84 Kg/m | 5.8 |
| | Yield Stress | 178 N/mm2 Mpa | 165 Mpa min |
| | Tensile Strength | 311 N/mm2 Mpa | 290 Mpa min |
| | Percent | 24 | 23% min |

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MKN/10/2020-2021

Date 12.08.2021

# TEST REPORT ON CERAMIC TILES

*Client : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

*Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

*Name of Work : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Technical Reference : IS: 13630 - 2006 - Method of Testing Ceramic Tiles
IS 15622 - 2006 - Specification of Ceramic Tiles

No. of Samples Tested : 05 (Five)

Date of Testing 06.08.2021 to 12.08.2021

## I. MODULUS OF RUPTURE

| Sl. No. | Measured Dimension (mm) | Modulus of Rupture ($N/mm^2$) | Average ($N/mm^2$) | Requirement as per IS: 15622 (Reaffirmed 2006) |
|---|---|---|---|---|
| 1 | 300x300x5.2 | 45.9 | 46.74 | Average 47, indivisual minimum 44 $N/mm^2$ |
| 2 | 300x300x5.3 | 48.2 | | |
| 3 | 300x300x5.5 | 46.3 | | |
| 4 | 300x300x5.6 | 47.9 | | |
| 5 | 300x300x5.4 | 45.4 | | |

## II. CHEMICAL RESISTANCE

| Sl. No. | Measured Dimension (mm) | Visual observations | Requirement as per IS: 15622 (Reaffirmed 2006) |
|---|---|---|---|
| 1 | 300x300x5.2 | No visible effect | Class AA, min (13630 Part 8) |
| 2 | 300x300x5.3 | No visible effect | |
| 3 | 300x300x5.5 | No visible effect | |
| 4 | 300x300x5.6 | No visible effect | |
| 5 | 300x300x5.4 | No visible effect | |

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III. STAIN RESISTANCE

| Sl. No. | Measured Dimension (mm) | Visual observations | Requirement as per IS: 15622 (Reaffirmed 2006) |
|---|---|---|---|
| 1 | 300x300x5.2 | Stain Removed by Water | Class 1, min (13630 Part 8) |
| 2 | 300x300x5.3 | Stain Removed by Water | |
| 3 | 300x300x5.5 | Stain Removed by Water | |
| 4 | 300x300x5.6 | Stain Removed by Water | |
| 5 | 300x300x5.4 | Stain Removed by Water | |

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MKN/10/2020-2021

Date 09.08.2021

# TEST REPORT ON PRE-POLISHED DESIGNER CEMENT CONCRETE TILES

Client : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

Contractor : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of the Work : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Sample ID : Pre-Polished Designer Cement Concrete Tiles, 25mm thickness

Technical Reference : IS: 1237-1980 (Reaffirmed 2006)

No. of Samples Tested : 6 (Six)

Date of Testing 06.08.2021 to 09.08.2021

**I.**

| Sl. No. | Wet Transverse Strength ($N/mm^2$) | Average ($N/mm^2$) | Requirement as per IS: 1237-2012 |
|---|---|---|---|
| 1 | 5.9 | 5.53 | The average wet transverse strength should not be less than 3.0 $N/mm^2$ when 6 full size tiles are tested. |
| 2 | 5.2 | | |
| 3 | 5.3 | | |
| 4 | 5.5 | | |
| 5 | 5.6 | | |
| 6 | 5.7 | | |

**II.**

| Sl. No. | Water Absorption (% by Wt) | Average (% by Wt) | Requirement as per IS: 1237-2012 |
|---|---|---|---|
| 1 | 3.2 | 3.12 | The average percentage of water absorption should not exceed 10% when 6 full size tiles are tested. |
| 2 | 3.5 | | |
| 3 | 3.8 | | |
| 4 | 2.5 | | |
| 5 | 2.6 | | |
| 6 | 3.1 | | |

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Asst Executive Engineer
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Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Job No.: CQCE/BBMP/MKN/10/2020-2021 Date: 18.01.2021

## TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

| | |
|---|---|
| **Client** | **: Executive Engineer-4,** Lakes,BBMP, Bangalore. |
| **Agency** | **: Sri. Mahesh K N,** Contractor, Bangalore. |
| **Name of Work** | : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore |
| **Reference to BIS codes** | : IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification<br>IS 3495 (Part 1 to 3) : 1992(RA 2011)<br>Method of Tests Burnt Clay Building Bricks<br>Part 1:Determination of Compressive Strength, (Cl 4.2.3)<br>Part 2:Determination of Water Absorption,(Cl 4.1.3)<br>Part 3: Determination of Efflorescence, (Cl 4) |
| **Date of test** | 13.01.2021 to 18.01.2021 |

### COMPRESSIVE STRENGTH

| Sl.No. | Compressive strength of individual bricks (N/mm2) | Acceptability as per IS 1077:1992, Clause 7.1 |
|---|---|---|
| 1 | 7.8 | The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%. |
| 2 | 7.9 | |
| 3 | 8.2 | |
| 4 | 8.4 | |
| 5 | 8.6 | |
| Average of 5 bricks | 8.2 | |

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## WATER ABSORPTION:

| Sl.No. | Water Absorption(%) | Acceptability as per IS 1077:1992, Clause 7.2 |
|---|---|---|
| 1 | 10.2 | The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes. |
| 2 | 10.5 | |
| 3 | 10.8 | |
| 4 | 10.3 | |
| 5 | 10.7 | |
| Average of 5 bricks | **10.5** | |

## EFFLORESCENCE:

| Sl.No. | Efflorescence | Acceptability as per IS 1077:1992, Clause 7.3 |
|---|---|---|
| 1 | Moderate | The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higher classes. |
| 2 | Moderate | |
| 3 | Moderate | |
| 4 | Moderate | |
| 5 | Moderate | |

## DIMENSIONS AND TOLERANCES

| Sl.No. | Dimensions obtained for 20 bricks(mm) | | Acceptability as per IS 1077:1992, Clause 6.2(b) |
|---|---|---|---|
| 1 | Length | 4595 | 4520 to 4680 mm |
| 2 | Width | 2180 | 2160 to 2240 mm |
| 3 | Height | 1365 | 1360 to 1440 mm |

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Job No.: CQCE/BBMP/MKN/10/2020-2021

Date: 15.07.2020

# TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of the work : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 08.07.2020 | 15.07.2020 | 8.054 | 258.5 | 11.49 |
| 2 | 08.07.2020 | 15.07.2020 | 8.163 | 263.1 | 11.69 |
| 3 | 08.07.2020 | 15.07.2020 | 8.111 | 270.0 | 12.00 |

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Lakes. BBMP

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Job No.: CQCE/BBMP/MKN/10/2020-2021

Date: 05.08.2020

# TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of the work : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 08.07.2020 | 05.08.2020 | 8.061 | 377.5 | 16.78 |
| 2 | 08.07.2020 | 05.08.2020 | 8.187 | 383.6 | 17.05 |
| 3 | 08.07.2020 | 05.08.2020 | 8.193 | 392.1 | 17.43 |

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Job No.: CQCE/BBMP/MKN/10/2020-2021

Date: 24.07.2020

# TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of the work : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 17.07.2020 | 24.07.2020 | 8.123 | 256.8 | 11.41 |
| 2 | 17.07.2020 | 24.07.2020 | 8.165 | 268.9 | 11.95 |
| 3 | 17.07.2020 | 24.07.2020 | 8.047 | 272.3 | 12.10 |

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Lakes, BBMP

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Job No.: CQCE/BBMP/MKN/10/2020-2021

Date: 14.08.2020

# TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of the work : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 17.07.2020 | 14.08.2020 | 8.022 | 378.8 | 16.84 |
| 2 | 17.07.2020 | 14.08.2020 | 8.167 | 386.9 | 17.20 |
| 3 | 17.07.2020 | 14.08.2020 | 8.189 | 395.4 | 17.57 |

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Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of the work : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 17.07.2020 | 24.07.2020 | 8.067 | 271.1 | 12.05 |
| 2 | 17.07.2020 | 24.07.2020 | 8.002 | 283.6 | 12.60 |
| 3 | 17.07.2020 | 24.07.2020 | 8.154 | 292.5 | 13.00 |

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Job No.: CQCE/BBMP/MKN/10/2020-2021

Date: 14.08.2020

# TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of the work : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 17.07.2020 | 14.08.2020 | 8.015 | 378.9 | 16.84 |
| 2 | 17.07.2020 | 14.08.2020 | 8.169 | 382.3 | 16.99 |
| 3 | 17.07.2020 | 14.08.2020 | 8.032 | 394.5 | 17.53 |

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Job No.: CQCE/BBMP/MKN/10/2020-2021

Date: 16.09.2020

# TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of the work : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 09.09.2020 | 16.09.2020 | 8.187 | 257.3 | 11.44 |
| 2 | 09.09.2020 | 16.09.2020 | 8.013 | 264.9 | 11.77 |
| 3 | 09.09.2020 | 16.09.2020 | 8.169 | 273.5 | 12.16 |

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Asst Executive Engineer
Lakes. BBMP

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
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Job No.: CQCE/BBMP/MKN/10/2020-2021

Date: 07.10.2020

# TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of the work : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 09.09.2020 | 07.10.2020 | 8.113 | 371.6 | 16.52 |
| 2 | 09.09.2020 | 07.10.2020 | 8.198 | 385.6 | 17.14 |
| 3 | 09.09.2020 | 07.10.2020 | 8.057 | 392.3 | 17.44 |

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

EU-TECH PMC BANGALORE

Asst Executive Engineer
Lakes. BBMP

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

CIVIL QUALITY
CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited
Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MKN/10/2020-2021

Date: 16.09.2020

# TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of the work : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 09.09.2020 | 16.09.2020 | 8.002 | 260.0 | 11.56 |
| 2 | 09.09.2020 | 16.09.2020 | 8.143 | 270.0 | 12.00 |
| 3 | 09.09.2020 | 16.09.2020 | 8.162 | 280.0 | 12.44 |

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

ABU-TECH PMC BANGALORE

Asst Executive Engineer
Lakes, BBMP

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

CIVIL QUALITY
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Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MKN/10/2020-2021

Date: 07.10.2020

# TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of the work : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 09.09.2020 | 07.10.2020 | 8.169 | 369.8 | 16.44 |
| 2 | 09.09.2020 | 07.10.2020 | 8.167 | 372.3 | 16.55 |
| 3 | 09.09.2020 | 07.10.2020 | 8.142 | 385.4 | 17.13 |

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

BBU-TECH PMC BANGALORE

Asst Executive Engineer
Lakes, BBMP

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MKN/10/2020-2021

Date: 14.08.2021

# TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of the work : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 07.08.2021 | 14.08.2021 | 8.154 | 262.3 | 11.66 |
| 2 | 07.08.2021 | 14.08.2021 | 8.178 | 278.9 | 12.40 |
| 3 | 07.08.2021 | 14.08.2021 | 8.140 | 282.3 | 12.55 |

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

BU-TECH PMC BANGALORE

Asst Executive Engineer.
Lakes. BBMP

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MKN/10/2020-2021 Date: 04.09.2021

# TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of the work : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 07.08.2021 | 04.09.2021 | 8.121 | 379.6 | 16.87 |
| 2 | 07.08.2021 | 04.09.2021 | 8.064 | 384.5 | 17.09 |
| 3 | 07.08.2021 | 04.09.2021 | 8.139 | 396.5 | 17.62 |

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For CIVIL QUALITY CONSULTANTS & ENGINEER

Asst Executive Enginee,
Lakes. BBMP

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore
Contact: 8553518550, 080-23240644 Email:

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Date: 14.08.2021

Job No.: CQCE/BBMP/MKN/10/2020-2021

# TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of the work : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strengt ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 07.08.2021 | 14.08.2021 | 8.145 | 265.1 | 11.78 |
| 2 | 07.08.2021 | 14.08.2021 | 8.167 | 272.3 | 12.10 |
| 3 | 07.08.2021 | 14.08.2021 | 8.132 | 285.6 | 12.69 |

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Testing of
Bitumen
Management Consult

...Bangalore-560 05...
...ants@gmail.com

Job No.: CQCE/BBMP/MKN/10/2020-2021

## TEST REPORT ON CONCRETE CUB

Client : **Executive Engineer-4,** Lakes,BBMP, Bangal...

Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of the work : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 07.08.2021 | 04.09.2021 | 8.194 | 372.3 | 16.55 |
| 2 | 07.08.2021 | 04.09.2021 | 8.176 | 384.5 | 17.09 |
| 3 | 07.08.2021 | 04.09.2021 | 8.140 | 385.6 | 17.14 |

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Asst Executive Enginee...
Lakes, BBMP

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

01.10.2020

Job No.: CQCE/BBMP/MKN/10/2020-2021

# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

**Contractor** : **Sri. Mahesh K N,** Contractor, Bangalore.

**Name of the work** : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{25}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 24.09.2020 | 01.10.2020 | 8.014 | 402.3 | 17.88 |
| 2 | 24.09.2020 | 01.10.2020 | 8.031 | 416.8 | 18.52 |
| 3 | 24.09.2020 | 01.10.2020 | 8.047 | 435.4 | 19.35 |

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BU-TECH PMC BANGALORE

Authorised Signatory

Asst Executive Engineer
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MKN/10/2020-2021

22.10.2020

# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

**Contractor** : **Sri. Mahesh K N,** Contractor, Bangalore.

**Name of the work** : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{25}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 24.09.2020 | 22.10.2020 | 8.123 | 620.0 | 27.56 |
| 2 | 24.09.2020 | 22.10.2020 | 8.146 | 635.8 | 28.26 |
| 3 | 24.09.2020 | 22.10.2020 | 8.102 | 642.1 | 28.54 |

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BU-TECH PMC BANGALORE

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Asst Executive Engineer
Lakes, BBMP

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddaba
Contact: 8553518550, 080-2324

CIVIL QUALITY
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MKN/10/2020-2021

27.08.2021

# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

**Contractor** : **Sri. Mahesh K N,** Contractor, Bangalore.

**Name of the work** : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{25}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 20.08.2021 | 27.08.2021 | 8.147 | 410.3 | 18.24 |
| 2 | 20.08.2021 | 27.08.2021 | 8.169 | 419.6 | 18.65 |
| 3 | 20.08.2021 | 27.08.2021 | 8.013 | 432.1 | 19.20 |

Note:

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

BUTECH PMC BANGALORE

Asst Executive Engineer,
Lakes, BBMP

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MKN/10/2020-2021

17.09.2021

# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

**Contractor** : **Sri. Mahesh K N,** Contractor, Bangalore.

**Name of the work** : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{25}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 20.08.2021 | 17.09.2021 | 8.121 | 601.5 | 26.73 |
| 2 | 20.08.2021 | 17.09.2021 | 8.140 | 629.3 | 27.97 |
| 3 | 20.08.2021 | 17.09.2021 | 8.196 | 635.8 | 28.26 |

Note:

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MKN/10/2020-2021

11.09.2021

# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

**Contractor** : **Sri. Mahesh K N,** Contractor, Bangalore.

**Name of the work** : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{25}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 04.09.2021 | 11.09.2021 | 8.175 | 409.5 | 18.20 |
| 2 | 04.09.2021 | 11.09.2021 | 8.196 | 418.2 | 18.59 |
| 3 | 04.09.2021 | 11.09.2021 | 8.001 | 434.7 | 19.32 |

Note:

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

PMC BANGALORE BRANCH

Asst Executive Engineer
Lakes, BBMP

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MKN/10/2020-2021

02.10.2021

# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Executive Engineer-4,** Lakes,BBMP, Bangalore.

**Contractor** : **Sri. Mahesh K N,** Contractor, Bangalore.

**Name of the work** : Providing Pathway, Children Play Equipments and Other Development Works in Parks at Doddabommasandra Lake in Ward No.10, BBMP, Bangalore

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{25}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 04.09.2021 | 02.10.2021 | 8.112 | 600.5 | 26.69 |
| 2 | 04.09.2021 | 02.10.2021 | 8.143 | 628.2 | 27.92 |
| 3 | 04.09.2021 | 02.10.2021 | 8.167 | 635.4 | 28.24 |

Note:

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Asst Executive Engineer
Lakes, BBMP

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com